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**Abstract of the Disclosure**

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3        Network for transmitting and using electromagnetic radiation for two or more  
4        functionally different useful purposes. Such a network may be comprised of a signal  
5        source apparatus to provide information, an electromagnetic radiation generator capable  
6        of being modulated for providing electromagnetic radiation, electronic circuitry for  
7        modulating the electromagnetic radiation generator, medium through which the  
8        electromagnetic radiation passes and is transmitted, a receiver apparatus for receiving and  
9        demodulating the modulated electromagnetic radiation, a first user means for processing  
10      and making use of the information to achieve a useful functional purpose, and second  
11      user means for achieving a useful functional purpose from said radiation said useful  
12      functional purpose being different from the purpose of said first user means.

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